



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601 • (312) 814-6026



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

BRUCE RAUNER, GOVERNOR

ALEC MESSINA, DIRECTOR

FREEDOM OF INFORMATION ACT DOCUMENT RELEASE FORM

Re: 097035AAQ—Lake County
Gurnee--Vantage Specialties Inc
Compliance

I authorize the public disclosure of the following public records listed on **Attachment A**. These public records are marked: "*CONFIDENTIAL or TRADE SECRET*". These public records are no longer regarded as exempt from public disclosure/trade secret. Any past claims that the aforementioned records were exempt from public disclosure/trade secret, including any records previously determined to be exempt from public disclosure/trade secret by the Illinois Environmental Protection Agency, are hereby waived and withdrawn.

Noel Beavis

PRINTED NAME

SIGNATURE

Chief Operating Officer

TITLE

Vantage Specialty Chemicals

COMPANY

4650 8th Racine Ave Chicago IL 60611

ADDRESS

773-6507579

TELEPHONE NUMBER

18/12/2018

DATE

4302 N. Main St., Rockford, IL 61103 (815) 987-7760
595 S. State, Elgin, IL 60123 (847) 608-3131
2125 S. First St., Champaign, IL 61820 (217) 278-5800
2009 Mall St., Collinsville, IL 62234 (618) 346-5120

9511 Harrison St., Des Plaines, IL 60016 (847) 294-4000
5407 N. University St., Arbor 113, Peoria, IL 61614 (309) 693-5462
2309 W. Main St., Suite 116, Marlon, IL 62959 (618) 993-7200
100 W. Randolph, Suite 10-300, Chicago, IL 60601 (312) 814-6026

PLEASE PRINT ON RECYCLED PAPER

ATTACHMENT A

Document	FILE CATEGORY	DATE OF DOC	DATE RECEIVED
2004 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/28/2005	4/29/2005
2005 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/27/2006	5/8/2006
2006 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/27/2007	5/1/2007
2007 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/21/2008	4/25/2008
2008 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/23/2009	4/28/2009
2009 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/29/2010	5/3/2010
2006 Annual Air Emissions Report (Revised)	AIR ANNUAL EMISSIONS REPORTS	10/25/2010	10/27/2010
2007 Annual Air Emissions Report (Revised)	AIR ANNUAL EMISSIONS REPORTS	10/25/2010	10/27/2010
2008 Annual Air Emissions Report (Revised)	AIR ANNUAL EMISSIONS REPORTS	10/25/2010	10/27/2010
2009 Annual Air Emissions Report (Revised)	AIR ANNUAL EMISSIONS REPORTS	10/25/2010	10/27/2010
2010 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/28/2011	5/4/2011
2011 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	5/1/2012	5/4/2012
2011 Annual Air Emissions Report (Revised)	AIR ANNUAL EMISSIONS REPORTS	6/20/2012	6/22/2012
2012 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	5/1/2013	5/2/2013
2013 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	5/1/2014	5/2/2014
2014 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	5/1/2015	5/5/2015
2015 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/17/2016	4/27/2016
2016 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	5/1/2017	5/2/2017
2017 Annual Air Emissions Report	AIR ANNUAL EMISSIONS REPORTS	4/17/2018	4/25/2018

097035AAQ - Vantage Specialties Inc

- SOURCE DATA -

TRADE SECRET VERSION

SOURCE
IDS AND
LOCATION

AIRS: 17-097-0001 IEPA USE ONLY
FINDS: ILD055413371 IEPA USE ONLY
FEIN: 521673090
D&B: _____
LATITUDE: 42:23:01.7232
LONGITUDE: 87:53:58.4664

SIC 1: 2843
SIC 2: _____
SIC 3: _____
SIC 4: _____

NAICS 1: 325613
NAICS 2: _____
NAICS 3: _____
NAICS 4: _____
NAICS 5: _____
NAICS 6: _____

SOURCE
ADDRESS

Vantage Specialties Inc
3938 Forett Dr
Gurnee, IL 60031-1244

ACT: Donald Weed Jim Mangas
ONE: 847-249-6805 (847) 249-6374
FAX: _____
ONE: _____
TEL: den-weed@vantagegrp.com Jim.Mangas@vantagegrp.com

EXT:

ANNUAL
EMISSION
REPORT

CONTACT: Donald Weed

Jim Mangas

PHONE: 847-249-6805

(847) 249-6374

EXT:

FAX:

ALT PHONE:

E-MAIL: den-weed@vantagegrp.com

Jim.Mangas@vantagegrp.com

MAILING
ADDRESS

3938 Forett Dr
Gurnee, IL 60031-1244

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

AUTHORIZED SIGNATURE

DATE

John Richardson
John Richardson - STE MANAGER

847-249-6782
TELEPHONE NUMBER

TYPED OR PRINTED NAME AND TITLE

STATE OF ILLINOIS
Illinois Environmental Protection Agency
DIVISION OF AIR POLLUTION CONTROL

APR 25 2018

RECEIVED

097035 AAQ
19
Document

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Code 201.302(a, b) and 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/24-45.

IEPA-DIVISION OF RECORDS MANAGEMENT
EXEMPT

JUN 28 2018

REVIEWER: EMI

097035AAQ - Vantage Specialties Inc

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2017 (TONS/YEAR)		EMISSIONS REPORTED FOR 2016 (TONS/YEAR)		IEPA 2017 ESTIMATED EMISSIONS (TONS/YEAR)	
CO	8.59		7.860000		8.843066	
CO2	12275.21		11,230.770000		12,632.952000	
ETO	1.08		1.000000		3.144960	
METHANE	0.23		0.210000		0.242131	
N2O	0.02		0.020000		0.231605	
NH3	0.33		0.300000		0.336879	
NOX	10.23		9.360000		10.527460	
PART	2.15		2.080000		1.505686	
PM10	2.15		2.080000		1.505686	
PM2.5	2.15		2.080000		1.505686	
PO	0.26		0.240000		0.043680	
SO2	0.06		0.070000		0.116084	
VOM	11.04		10.330000		23.395733	

097035AAQ - Vantage Specialties Inc

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
01050051	CONSTRUCTION	Clean out tank (T154) with condenser	GRANTED	07-02-2001	
01120018	CONSTRUCTION	Barometric cooling tower	GRANTED	12-21-2001	
03020068	CONSTRUCTION	Tank T50R	GRANTED	03-18-2003	
03110006	CONSTRUCTION	Process reactor	GRANTED	02-20-2008	
03110043	CONSTRUCTION	Storage tank T80	GRANTED	12-29-2003	
05120021	CONSTRUCTION	Drumming station	GRANTED	03-30-2006	
06010052	CONSTRUCTION	Storage tanks	GRANTED	04-12-2006	
10100020	CONSTRUCTION	T121 Permitting	GRANTED	12-16-2010	
10120018	CONSTRUCTION	Debottleneck alkoxylation and ester areas	GRANTED	07-07-2011	
15100023	CONSTRUCTION	Replacement B3 Oil Heater	GRANTED	11-05-2015	
15110027	CONSTRUCTION	Alkoxylation Area Modification Project	GRANTED	06-06-2017	
90110025	CONSTRUCTION	Condensers on wastewater concentrator	GRANTED	03-06-1991	
91010014	CONSTRUCTION	Flaker #6	GRANTED	03-08-1991	
91020093	CONSTRUCTION	Flaker feed tank	GRANTED	03-07-1991	
91040064	CONSTRUCTION	Dust collector for B-11	GRANTED	06-12-1991	
94020015	CONSTRUCTION	Incorporated into 89090091	GRANTED	03-04-1994	
94030094	CONSTRUCTION	Incorporated into 89110087	GRANTED	07-20-1995	
96030159	TITLE V	Surfactant mfg	GRANTED	12-11-2017	12-19-2019
99100090	CONSTRUCTION	Surfactant manufacturing	GRANTED	12-14-2000	

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0103 - 3 Oil heaters (B3, B6 and B8)

PERMIT: 96030159

BEGAN OPERATION: 01 / 1980

SCC: 10200602

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION: 07 / 1974

DEC - FEB: 29.43 % 26.67 MAR - MAY: 26.81 % 26.17
JUN - AUG: 21.30 % 22.81 SEP - NOV: 22.46 % 24.35

CEASED OPERATION: /

FUEL TYPE: 1 NATURAL GAS

HEAT CONTENT: 1000 Btu/ft3

SULFUR CONTENT (%):

ASH CONTENT (%):

NITROGEN CONTENT (%):

INPUT (MMBTU/HR): 34.5

UNITS: MILLION CUBIC FEET BURNED

UNITS: MILLION CUBIC FEET BURNED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	52	52		WEEKS/SEASON:	13	13	
HOURS/YEAR:	8,760	8760		HOURS/SEASON:	2,208	2208	
RATE/HR: 0.0085				RATE/HR: 0.0072			
0.0093				0.0084			

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0103 - 3 Oil heaters (B3, B6 and B8)

PERMIT: 96030159

BEGAN OPERATION: 01 / 1980
CEASED OPERATION: /

SCC: 10200602

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR)	
			IEPA REPORTED	REPORTED
CO	3	84	.5124	.71 0.78
CO2	3	120000	732	1015.85 1112.80
METHANE	3	2.3	.01403	.02 0.02
N2O	3	2.2	.01342	.002 0.002
NH3	3	3.2	.01952	.03 0.03
NOX	3	100	.61	.85 0.93
PART	3	7.6	.04636	.06 0.07
PM10	3	7.6	.04636	.06 0.07
PM2.5	3	7.6	.04636	.06 0.07
SO2	3	.6	.00366	.01 0.01
VOM	3	5.5	.03355	.05 0.05

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR)	
			IEPA REPORTED	REPORTED

NOX	3	3	.72	.72 0.84
VOM	3	3	.04	.04 0.05

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0103

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0112 - 4 Boilers (B1, B2, B5, B7)

PERMIT: 96030159

BEGAN OPERATION: 01 / 1974

SCC: 10200602

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: 29.43 % 26.67 MAR - MAY: 26.81 % 26.17
JUN - AUG: 21.30 % 22.81 SEP - NOV: 22.46 % 24.35BEGAN OPERATION: /
CEASED OPERATION: /

FUEL TYPE: 1 NATURAL GAS

HEAT CONTENT: 1000 Btu/Ft3

INPUT (MMBTU/HR): 70.4

SULFUR CONTENT (%):

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: MILLION CUBIC FEET BURNED

UNITS: MILLION CUBIC FEET BURNED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	39	39		WEEKS/SEASON:	10	10	
HOURS/YEAR:	6,525	6516		HOURS/SEASON:	1,637	1636	
RATE/HR: 0.0173 0.0189				START TIME:			
				END TIME:			
				RATE/HR: 0.0147 0.0172			

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0112 - 4 Boilers (B1, B2, B5, B7)

PERMIT: 96030159

BEGAN OPERATION: 01 / 1974

SCC: 10200602

CEASED OPERATION: /

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
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CO	3	84	1.512	1.45	1.59
CO2	3	120000	2160	2074.81	2271.59
METHANE	3	2.3	.0414	.04	0.04
N2O	3	2.2	.0396	.004	0.004
NH3	3	3.2	.0576	.06	0.06
NOX	3	100	1.8	1.73	1.89
PART	3	7.6	.1368	.13	0.14
PM10	3	7.6	.1368	.13	0.14
PM2.5	3	7.6	.1368	.13	0.14
SO2	3	.6	.0108	.01	0.01
VOM	3	5.5	.099	.1	0.10

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
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NOX	3		1.47	1.47	1.72
VOM	3		.08	.08	0.09

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0103

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0116 - Replacement oil heater

PERMIT:

BEGAN OPERATION: /

SCC: 30190003

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

*Emissions Included in Point 0103

PERCENT THROUGHPUTS:

DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %BEGAN OPERATION: /
CEASED OPERATION: /

FUEL TYPE: 1 NATURAL GAS

HEAT CONTENT: 1000 Btu/ft3

INPUT (MMBTU/HR): 12.5

SULFUR CONTENT (%):

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: MILLION CUBIC FEET BURNED

UNITS: MILLION CUBIC FEET BURNED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	0.0			HOURS/DAY:	0.0		
DAYS/WEEK:	0.0			DAYS/WEEK:	0.0		
WEEKS/YEAR:	0			WEEKS/SEASON:	0		
HOURS/YEAR:	0			HOURS/SEASON:	0		
				START TIME:			
				END TIME:			
RATE/HR:	0.0000			RATE/HR:	0.0000		

097035AAQ - Vantage Specialties Inc

- FUEL COMBUSTION DATA -

POINT 0116 - Replacement oil heater

PERMIT:

SCC: 30190003

BEGAN OPERATION: /
CEASED OPERATION: /

MODE 01 - *Emissions included in Point 0103

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR		EMISSION RATE (LB/HR)	
		IEPA	REPORTED	IEPA	REPORTED
CO	3	3	84	.9744	0
CO2	3	3	120000	1392	0
METHANE	3	3	2.3	.02668	0
N2O	3	3	2.2	.02552	0
NH3	3	3	3.2	.03712	0
NOX	3	3	100	1.16	0
PART	3	3	7.6	.08816	0
PM10	3	3	7.6	.08816	0
PM2.5	3	3	7.6	.08816	0
SO2	3	3	.6	.00696	0
VOM	3	3	5.5	.0638	0

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR		OZONE SEASON EMISSION RATE (LB/HR)	
		IEPA	REPORTED	IEPA	REPORTED

NOX	3	3		0	0
VOM	3	3		0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0121 CAPTURE EFFICIENCY: 100.00 %

097035AAQ - Vantage Specialties Inc

PROCESS DATA

POINT 0034 - Reactor R18

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION:

MODE 01

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

DEC - FEB: 28.00 % 43 MAR - MAY: 35.00 % 18
JUN - AUG: 21.00 % 27 SEP - NOV: 16.00 % 13

BEGAN OPERATION: / 1989

CEASED OPERATION: /

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	17	12		WEEKS/SEASON:	2	3	
HOURS/YEAR:	2,778	2076		HOURS/SEASON:	410	454	
PWR (LB/HR):	67.2000	58.82		START TIME:			
RATE/HR:	0.0340	0.029		END TIME:			
				PWR (LB/HR):	95.5000	71.61	
				RATE/HR:	0.0480	0.036	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0034 - Reactor R18

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION:

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
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VOM	2	4	.0999	.0261	0.0215
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POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
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VOM	4	4	.0039	.0039	0.0032
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CAPTURING CONTROLS:

CONTROL	0005	CAPTURE EFFICIENCY:	100.00	%	99
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CAPTURING STACKS:

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0037 - Reactor R21

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION:

MODE 01 -

DESCRIPTION CORRECTION:

	PERCENT THROUGHPUTS:	DEC - FEB:	25.00	% 0	MAR - MAY:	25.00	% 0
BEGAN OPERATION:	/ 1989	JUN - AUG:	25.00	% 0	SEP - NOV:	25.00	% 0
CEASED OPERATION:	/						

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	0.0	HOURS/DAY:	0.0
DAYS/WEEK:	0.0	DAYS/WEEK:	0.0
WEEKS/YEAR:	0	WEEKS/SEASON:	0
HOURS/YEAR:	0	HOURS/SEASON:	0
		START TIME:	
		END TIME:	
PWR (LB/HR):	0.0000	PWR (LB/HR):	0.0000
RATE/HR:	0.0000	RATE/HR:	0.0000

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0037 - Reactor R21

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION:

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED
-------------------	--------------------	----------------------------------

EMISSION RATE (LB/HR) IEPA REPORTED
--

VOM	3	3	_____
-----	---	---	-------

.1

0 0.00

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED
-------------------	--------------------	----------------------------------

OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
--

VOM	3	3	_____
-----	---	---	-------

0

0 0.00

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021

CAPTURE EFFICIENCY:

100.00 %

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0104 - ~~Reactors R1, R5 and R7~~ **Reactors R1, R3-R7**

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

BEGAN OPERATION: / 1989 PERCENT THROUGHPUTS: DEC - FEB: 26.00 % **24** MAR - MAY: 25.00 % **27**
 CEASED OPERATION: / JUN - AUG: 27.00 % **26** SEP - NOV: 22.00 % **24**

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	35	37		WEEKS/SEASON:	9	10	
HOURS/YEAR:	5,822	6,254		HOURS/SEASON:	1,549	1,674	
PWR (LB/HR):	11,827.1000	12,380.61		START TIME:			
RATE/HR:	5.9140	6.190		END TIME:			
				PWR (LB/HR):	11,911.1000	11,825.63	
				RATE/HR:	5.9560	5.913	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0104 - ~~Reactors R1-R5 and R7~~ Reactors R1, R3-R7 PERMIT: 96030159

BEGAN OPERATION: 01 / 1989 SCC: 30199998

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
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VOM	3	1	.504	.3569	0.3869
-----	---	---	------	-------	--------

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
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VOM	1	1	.3541	.3541	0.3644
-----	---	---	-------	-------	--------

CAPTURING CONTROLS:

CONTROL	0007	CAPTURE EFFICIENCY:	100.00	%	99.7
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CAPTURING STACKS:

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0105 - Reactors R22, R23 and R29

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION:	/	1989	DEC - FEB:	32.00 %	<u>23</u>	MAR - MAY:	37.00 %	<u>15</u>
CEASED OPERATION:	/		JUN - AUG:	13.00 %	<u>29</u>	SEP - NOV:	18.00 %	<u>34</u>

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	11	14		WEEKS/SEASON:	1	4	
HOURS/YEAR:	1,803	2,377		HOURS/SEASON:	236	629	
PWR (LB/HR):	990.5000	1,311.61		START TIME:			
RATE/HR:	0.4950	0.656		END TIME:			
				PWR (LB/HR):	986.0000	1,430.32	
				RATE/HR:	0.4930	0.715	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0105 - Reactors R22, R23 and R29

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION: /

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.3 .0268 0.3649
POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.0018 .0018 0.3989

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0105	CAPTURE EFFICIENCY:	100.00	%
				<u>85</u>

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0106 - Reactors R8, R9, R15, R17, and finish tanks F1-F5

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION:	/ 1989	DEC - FEB:	25.00 % <u>22</u>	MAR - MAY:	29.00 % <u>25</u>
CEASED OPERATION:	/	JUN - AUG:	24.00 % <u>27</u>	SEP - NOV:	22.00 % <u>27</u>

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	32	32		WEEKS/SEASON:	7	8	
HOURS/YEAR:	5,301	5,431		HOURS/SEASON:	1,234	1,383	
				START TIME:			
PWR (LB/HR):	5,927.3000	7,232.05		END TIME:			
RATE/HR:	2.9640	3.616		PWR (LB/HR):	6,116.0000	7,592.49	
				RATE/HR:	3.0580	3.796	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0106 - Reactors R8, R9, R15, R17, and finish tanks F1-F5

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30195998

CEASED OPERATION: /

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	3	3	.999	.0164	0.0047
-----	---	---	------	-------	--------

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	3	3	.0381	.0381	0.0059
-----	---	---	-------	-------	--------

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100.00	%	99
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CAPTURING STACKS:

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0107 - Reactors R16, R20 and R28

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION:	/	1989	DEC - FEB:	30.00 %	22	MAR - MAY:	26.00 %	30
CEASED OPERATION:	/		JUN - AUG:	23.00 %	23	SEP - NOV:	21.00 %	24

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	17	19		WEEKS/SEASON:	4	6	
HOURS/YEAR:	2,918	3,150		HOURS/SEASON:	662	938	
PWR (LB/HR):	1,035.8000	1,070.77		START TIME:			
RATE/HR:	0.5180	0.535		END TIME:			
				PWR (LB/HR):	1,064.0000	843.02	
				RATE/HR:	0.5320	0.422	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0107 - Reactors R16, R20 and R28

PERMIT: 96030159

BEGAN OPERATION: 01 / 1989

SCC: 30199998

CEASED OPERATION:

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	3	3	.412	.0836	0.2154
-----	---	---	------	-------	--------

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR		OZONE SEASON EMISSION RATE (LB/HR)	
		IEPA	REPORTED	IEPA	REPORTED

VOM	3	3	.0843	0.1087
-----	---	---	-------	--------

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0107	CAPTURE EFFICIENCY:	100.00	%
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097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0108 - Reactor R36 and tanks T50R and T154

PERMIT: 96030159

BEGAN OPERATION: 01 / 1990

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

BEGAN OPERATION: 01 / 1990 PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 25 MAR - MAY: 25.00 % 25
CEASED OPERATION: / JUN - AUG: 25.00 % 25 SEP - NOV: 25.00 % 25

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	24.0 <u>24</u>	HOURS/DAY:	24.0 <u>24</u>
DAYS/WEEK:	7.0 <u>7</u>	DAYS/WEEK:	7.0 <u>7</u>
WEEKS/YEAR:	52 <u>52</u>	WEEKS/SEASON:	13 <u>13</u>
HOURS/YEAR:	8,760 <u>8,760</u>	HOURS/SEASON:	2,208 <u>2,208</u>
PWR (LB/HR):	0.0000	START TIME:	
RATE/HR:	0.0000	END TIME:	
		PWR (LB/HR):	0.0000
		RATE/HR:	0.0000

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0108 - Reactor R36 and tanks T50R and T154

PERMIT: 96030159

BEGAN OPERATION: 01 / 1990

SCC: 30199998

CEASED OPERATION:

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	3	3	1.509	.71	0.38
-----	---	---	-------	-----	------

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	3	3	.71	.71	0.38
-----	---	---	-----	-----	------

CAPTURING CONTROLS:

CONTROL	0009	CAPTURE EFFICIENCY:	100.00	%	99
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CAPTURING STACKS:

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0109 - Barometric contact cooling tower

Barometric contact cooling tower was a significant unit for part of the year PERMIT: 96030159
until August 31st, 2017. From this date onward, BCCCT qualifies as an insignificant activity
Pursuant to 35 IAC 201.210 (a)(3).

SCC: 38500110

BEGAN OPERATION: 12 / 2001

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION: 12 / 2001

CEASED OPERATION: /

DEC - FEB: 25.00 % 25 MAR - MAY: 25.00 % 25
JUN - AUG: 25.00 % 25 SEP - NOV: 25.00 % 25

UNITS: 1000 GALLONS THROUGHPUT

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	52	52		WEEKS/SEASON:	13	13	
HOURS/YEAR:	8,760	8760		HOURS/SEASON:	2,208	2208	
PWR (LB/HR):				START TIME:			
				END TIME:			
PWR (LB/HR):				PWR (LB/HR):			
RATE/HR:	0.0000	N/A		RATE/HR:	0.0000	N/A	

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT	0109	-	Barometric contact cooling tower	Barometric contact cooling tower was a significant unit for part of the year until August 31th, 2017. From this date onward, BCCT qualifies as an insignificant activity pursuant to 35 IAC 201.210 (a)(3).	PERMIT:	96030159
BEGAN OPERATION:	12	/	2001		SCC:	38500110
CEASED OPERATION:						

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.1
			.095
			0.007
POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.095
			.095
			0.007

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0109	CAPTURE EFFICIENCY:	100.00	%
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097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0111 - Reactor R35

PERMIT: 96030159

BEGAN OPERATION: /

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION:	/	DEC - FEB:	38.00 % 28	MAR - MAY:	22.00 % 25
CEASED OPERATION:	/	JUN - AUG:	20.00 % 34	SEP - NOV:	20.00 % 13

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION

PEAK OZONE SEASON OPERATION

HOURS/DAY:	24.0	24
DAYS/WEEK:	7.0	7
WEEKS/YEAR:	16	18
HOURS/YEAR:	2,732	2,958
PWR (LB/HR):	657.2000	463.45
RATE/HR:	0.3290	0.232

HOURS/DAY:	24.0	24
DAYS/WEEK:	7.0	7
WEEKS/SEASON:	2	5
HOURS/SEASON:	281	844
START TIME:		
END TIME:		
PWR (LB/HR):	1,269.9000	544.87
RATE/HR:	0.6350	0.277

TRADE SECRET

097035AAG - Vantage Specialties Inc

- PROCESS DATA -

POINT 0111 - Reactor R35

PERMIT: 96030159

BEGAN OPERATION: /

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.2
			.0014 0.0005
POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
VOM	3	3	.0021
			.0021 0.0006

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0117 CAPTURE EFFICIENCY: 100.00 % 99.9

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0113 - Process tank 121

PERMIT: 96030159

BEGAN OPERATION: /
CEASED OPERATION: /

SCC: 30199998

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION:	/	DEC - FEB:	47.00 %	41	MAR - MAY:	15.00 %	21
CEASED OPERATION:	/	JUN - AUG:	11.00 %	20	SEP - NOV:	27.00 %	18

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	6	8		WEEKS/SEASON:	1	3	
HOURS/YEAR:	1,042	1,368		HOURS/SEASON:	67	442	
PWR (LB/HR):	164.6000	155.66		START TIME:			
RATE/HR:	0.0820	0.058		END TIME:			
				PWR (LB/HR):	274.5000	71.02	
				RATE/HR:	0.1370	0.036	

TRADE SECRET

097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0113 - Process tank 121

PERMIT: 96030159

BEGAN OPERATION:

SCC: 30199998

CEASED OPERATION:

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

SO2	4	4	.07	.06	0
VOM	3	3	.000054	.000226	1.87E-04

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
-------------------	--------------------	----------------------------------	--

VOM	4	4	.000812	.000812	5.29E-04
-----	---	---	---------	---------	----------

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0118	CAPTURE EFFICIENCY:	100.00	%	99.9
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097035AAQ - Vantage Specialties Inc

- PROCESS DATA -

POINT 0115 - Belt flaker

PERMIT: 96030159

BEGAN OPERATION:

SCC: 30199998

CEASED OPERATION:

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS:

BEGAN OPERATION: /
CEASED OPERATION: /

DEC - FEB: 23.00 % 23 MAR - MAY: 31.00 % 31
JUN - AUG: 31.00 % 31 SEP - NOV: 15.00 % 15

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24		
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7		
WEEKS/YEAR:	20	19		WEEKS/SEASON:	4		
HOURS/YEAR:	3,340	3,215		HOURS/SEASON:	753		
PWR (LB/HR):	2,106.1000	2,188.16		START TIME:			
RATE/HR:	1.0530	1.094		END TIME:			
				PWR (LB/HR):	2,883.53		
				RATE/HR:	1.442		

TRADE SECRET

097035AAG - Vantage Specialties Inc

- PROCESS DATA -

POINT 0115 - Belt flaker

PERMIT: 96030159

BEGAN OPERATION: /

SCC: 30199998

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED
-------------------	--------------------	----------------------------------

EMISSION RATE (LB/HR) REPORTED

PART	4	4	.24	.31	0.32
PM10	4	4	.24	.31	0.32
PM2.5	4	4	.24	.31	0.32

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
-------------------	--------------------	----------------------------------	---

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0120

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- OTHER SOURCE DATA -

POINT 0110 - Tanks T-101 and T-103

PERMIT: 96030159

BEGAN OPERATION: 10 / 1999

SCC: 40784801

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

BEGAN OPERATION: 10 / 1999 PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 25 MAR - MAY: 25.00 % 25
 CEASED OPERATION: / JUN - AUG: 25.00 % 25 SEP - NOV: 25.00 % 25

UNITS: 1000 GALLONS THROUGHPUT

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	<u>5</u>		HOURS/DAY:	24.0	<u>5</u>	
DAYS/WEEK:	7.0	<u>1</u>		DAYS/WEEK:	7.0	<u>1</u>	
WEEKS/YEAR:	52	<u>14</u>		WEEKS/SEASON:	13	<u>3</u>	
HOURS/YEAR:	8,760	<u>65*</u>		HOURS/SEASON:	2208	<u>16*</u>	
RATE/HR: 0.7300 <u>0.83</u>				START TIME:			
				END TIME:			
				RATE/HR: 0.7300 <u>0.83</u>			

*Both tanks T-101 and T-103 were in operation 8,712 hours/year in 2017. Hours shown here represent total hours of EO filter blowdown associated with EO storage tank (T-101) which occurs 14 times in 2017.

097035AAQ - Vantage Specialties Inc

- OTHER SOURCE DATA -

POINT 0110 - Tanks T-101 and T-103

PERMIT: 96030159

BEGAN OPERATION: 10 / 1999

SCC: 40784801

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
----------------	-----------------	-------------------------------	-------------------------------------

ETO	3	3	.72	.72	1.64*
PO	3	3	.01	0	0
VOM	3	3	.72	.72	0

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED
----------------	-----------------	-------------------------------	--

VOM	3	3	.67	.67	0.67
-----	---	---	-----	-----	------

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK	0110	CAPTURE EFFICIENCY	100.00	*
-------	------	--------------------	--------	---

*Emissions associated with EO filter blowdown which occurs 14 times in 2017.

097035AAQ - Vantage Specialties Inc

- OTHER SOURCE DATA -

POINT 0114 - Building 3 fugitives

PERMIT: 96030159

BEGAN OPERATION: /

SCC: 30188801

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

BEGAN OPERATION: / PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 25 MAR - MAY: 25.00 % 25
 CEASED OPERATION: / JUN - AUG: 25.00 % 25 SEP - NOV: 25.00 % 25

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24.0	24		HOURS/DAY:	24.0	24	
DAYS/WEEK:	7.0	7		DAYS/WEEK:	7.0	7	
WEEKS/YEAR:	52	52		WEEKS/SEASON:	13	13	
HOURS/YEAR:	8,760	8760		HOURS/SEASON:	2208	2208	
RATE/HR: 0.0000				RATE/HR: 0.0000			
				START TIME:			
				END TIME:			

097035AAG - Vantage Specialties Inc

- OTHER SOURCE DATA -

POINT 0114 - Building 3 fugitives

PERMIT: 96030159

BEGAN OPERATION: /

SCC: 30188801

CEASED OPERATION: /

MODE 01

POLLUTANT CODE	METHOD IEPA REP	EMISSION FACTOR IEPA REPORTED	EMISSION RATE (LB/HR) IEPA REPORTED
VOM	5	5	.48
OZONE SEASON EMISSION RATE (LB/HR) IEPA REPORTED			
VOM	5	5	.48
.48 0.48			

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0119 CAPTURE EFFICIENCY: 100.00 %

DATE: _____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

Page: 36

DAPC - ANNUAL EMISSIONS REPORT - 2017

ID NUMBER: 097035AAQ

NAME: Vantage Specialties Inc

- OTHER EMISSION UNIT DATA -

POINT A - Alkoxylation Process Fugitive Emissions

PERMIT: 96030159

BEGAN OPERATION: _____

CEASED OPERATION: _____

MODE 01 - _____

SCC: 30188801
SIC: _____

DESCRIPTION CORRECTION:

BEGAN OPERATION: _____ PERCENT THROUGHPUTS: DEC-FEB: 14 % MAR-MAY: 29 %
CEASED OPERATION: _____ JUN-AUG: 29 % SEP-NOV: 29 %

UNITS: TONS PRODUCED _____

UNITS: TONS PRODUCED _____

ANNUAL OPERATION				PEAK OZONE SEASON OPERATION			
HOURS/DAY:	24	HOURS/DAY:	24	HOURS/DAY:	24	START TIME:	_____
DAYS/WEEK:	7	DAYS/WEEK:	7	DAYS/WEEK:	7	END TIME:	_____
WEEKS/YEAR:	37	WEEKS/SEASON:	10	WEEKS/SEASON:	10	RATE/HR:	_____
HOURS/YEAR:	6,254	HOURS/SEASON:	1,674	HOURS/SEASON:	1,674		
RATE/HR:	_____						
CONFIDENTIAL:	_____	CONFIDENTIAL:	_____				

- EMISSION RATE DATA -

POINT A - Alkoxylation Process Fugitive Emissions

BEGAN OPERATION: _____ PERMIT: 96030159

CEASED OPERATION: _____

SCC: 30188801

SIC: _____

MODE 01 - _____

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL	
			EMISSION RATE (LB/HR)	
PART	3	0.01	0.22	
PM10	3	0.01	0.22	
PM2.5	3	0.01	0.22	
VOM	3		0.73	
POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON	
			EMISSION RATE (LB/HR)	
VOM	3	0	0.73	

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: %

CONTROL _____ CAPTURE EFFICIENCY: %

CONTROL _____ CAPTURE EFFICIENCY: %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: %

STACK _____ CAPTURE EFFICIENCY: %

STACK _____ CAPTURE EFFICIENCY: %

097035AAQ - Vantage Specialties Inc

- CONTROL DEVICE DATA -

CONTROL 0004 - Condenser

PERMIT: 96030159

BEGAN OPERATION: 12 / 1989

CONTROL CODE: 132

CEASED OPERATION: /

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		METHOD		PEAK OZONE SEASON OPERATION		METHOD	
	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED	IEPA	REPORTED
VOM	85.000							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0016

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- CONTROL DEVICE DATA -

CONTROL 0005 - Condenser

PERMIT: 96030159

BEGAN OPERATION: / 1989
CEASED OPERATION: /

CONTROL CODE: 132

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
	EFFICIENCY	METHOD	EFFICIENCY	METHOD
	IEPA REPORTED	IEPA REPORTED	IEPA REPORTED	IEPA REPORTED
VOM	85.000			

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0018

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- CONTROL DEVICE DATA -

CONTROL 0007 - Scrubber R37

PERMIT: 96030159

BEGAN OPERATION: / 1989
CEASED OPERATION: /

CONTROL CODE: 141

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
	EFFICIENCY	METHOD	EFFICIENCY	METHOD
	IEPA REPORTED	IEPA REPORTED	IEPA REPORTED	IEPA REPORTED
VOM	99.000			

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0104

CAPTURE EFFICIENCY:

100.00

%

097035AAQ - Vantage Specialties Inc

- CONTROL DEVICE DATA -

CONTROL 0009 - Condenser

PERMIT: 96030159

BEGAN OPERATION: 06 / 1989

CONTROL CODE: 132

CEASED OPERATION: /

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
	EFFICIENCY IEPA REPORTED	METHOD IEPA REPORTED	EFFICIENCY IEPA REPORTED	METHOD IEPA REPORTED
VOM	85.000			

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0101 CAPTURE EFFICIENCY: 100.00 % 99.7

DATE: _____

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2017

ID NUMBER: 097035AAQ NAME: Vantage Specialties Inc.

- CONTROL DEVICE DATA -

CONTROL A - Dust Collector

BEGAN OPERATION: _____
CEASED OPERATION: _____

PERMIT: _____
CONTROL CODE: _____

DESCRIPTION CORRECTION:

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REMOVAL EFFICIENCY:

POLLUTANT	PM/PM10/PM2.5	EFFICIENCY: 95 %	METHOD: _____
POLLUTANT	_____	EFFICIENCY: _____ %	METHOD: _____
POLLUTANT	_____	EFFICIENCY: _____ %	METHOD: _____

CAPTURING CONTROLS:

CONTROL A	CAPTURE EFFICIENCY: 100 %
CONTROL	CAPTURE EFFICIENCY: _____ %
CONTROL	CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK	CAPTURE EFFICIENCY: _____ %
STACK	CAPTURE EFFICIENCY: _____ %
STACK	CAPTURE EFFICIENCY: _____ %

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- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
0016 - R8,R9, R15, R17, and R19 and finishing tanks F1-F5	0.17	40	50	70
0018 - R18 Condenser	0.17	20	25	35
0021 - R21 Scrubber	2.00	45	514	70
0101 - Condenser	0.67	35	1117	200
0103 - Boilers and oil heaters	2.00	26	3400	450
0104 - Reactor room	2.00	30	4955	186
0105 - Reactors R22, R23 and R29	0.17	15	100	140
0107 - Reactors R16,R20, R26 and R28	2.00	30	4955	186
0109 - Stack	3.10	30	18739	177
0110 - Stack	2.00	30	4955	186

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- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
0117 - Reactor R35	1.55	51	2580	163
0118 - Process tank 121	2.83	38	7140	137
0119 - Building 3 fugitives	2.83	38	7140	137
0120 - Belt-flakes Vent indoors	2.83	38	7140	137
0121 - Replacement oil heater	3.29	74	12840	514